

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Date: March 19, 2004

DONALD J. LEWIS
JOHN D. RUSSELL
JOHN O. MICHELINI and
MICHAEL J. CULLEN

Filed : Concurrently with Application

For : IMPROVING ELECTROMECHANICAL VALVE OPERATING
CONDITION BY A CONTROL METHOD

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98

Applicants are submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the U.S. Patent and Trademark Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicants respectfully request that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

CONTENT OF DISCLOSURE

This Information Disclosure Statement includes (1) 6 pages of PTO-1449 forms, and (2) a legible copy of each foreign and non-patent reference, if any, listed on the form(s). However, because this application was filed on or after July 1, 2003, no copies of U.S. patents or published U.S. patent applications are included.

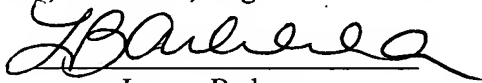
TIMING OF DISCLOSURE / FEE INFORMATION

This Information Disclosure Statement is being filed with the application or with a Request for Continued Examination of the application under 37 C.F.R. §1.114. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

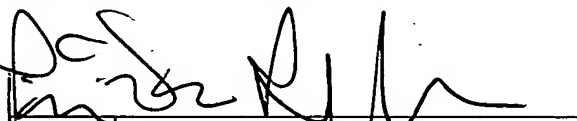
"Express Mail" Mailing Label No.
EV389123219US
Date of Deposit – March 19, 2004

I hereby certify that the attached correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.


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Respectfully submitted,

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Attorney/Agent for Applicant/Assignee

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER FGT 223		APPLICATION NUMBER		
		APPLICANT(S)				
		FILING DATE		GROUP ART UNIT		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,779,528	10-25-88	Bruke			
	4,926,823	5-22-90	Kishi et al			
	4,965,741	10-16-90	Cook et al			
	5,236,332	8-17-93	Satou et al			
	5,280,770	1-25-94	Satou et al			
	5,422,811	6-6-95	Togai			
	5,515,828	5-14-96	Cook et al			
	5,548,514	8-20-96	Hasegawa et al			
	5,600,056	2-4-97	Hasegawa et al			
	5,647,312	7-15-97	Salber et al			
	5,669,341	9-23-97	Ushirono et al			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	S55-49549	4-10-80	JP			
	S55-29002	3-1-80	JP			
	1 054 148	5-18-00	EP			
OTHER DOCUMENTS						
	RONALD J. PIERIK et al, "Design and Development of a Mechanical Variable Valve Actuation System", SAE Technical Paper No. 2001-01-1221, March 6-9, 2000, pp. 1-8					
	MARTIN PISCHINGER et al, "Benefits of the Electromechanical Valve Train in Vehicle Operation", SAE Technical Paper No. 2000-01-1223, March 6-9, 2000, pp. 1-11					
	M.J. VAN NIEUWSTADT et al, "Air Change Estimation in Camless Engines", SAE Technical Paper No. 2001-01-0581, March 5-8, 2001, pp. 1-8					
EXAMINER			DATE CONSIDERED			

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER		APPLICATION NUMBER			
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		FILING DATE		GROUP ART UNIT			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
	5,678,402	10-21-97	Kitagawa et al				
	5,743,221	4-28-98	Schmitz				
	5,746,183	5-5-98	Parke et al				
	5,765,514	6-16-98	Sono et al				
	5,950,603	9-14-99	Cook et al				
	6,000,376	12-14-99	Hess et al				
	6,023,929	2-15-00	Ma				
	6,039,026	5-21-00	Shiraishi et al				
	6,098,585	8-8-00	Brehob et al				
	6,116,210	9-12-00	Oder et al				
	6,138,636	10-31-00	Kohno et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
OTHER DOCUMENTS							
	LUCIEN KOOPMANS et al, "A four Stroke Camless Engine, Operated in Homogeneous Charge Compression Ignition Mode with Commercial Gasoline", SAE Technical Paper No. 2001-01-3610, September 24-27, 2001, pp. 1-14						
	WOLFGANG SALBER et al, "Synergies of Variable Valve Actuation and Direct Injection", SAE Technical Paper No. 2002-01-0706, March 4-7, 2002, pp. 1-9						
	"Operation of the Electronic Valve Actuation, Ford EVA Project Closed Loop Engine, System Control", Manual - Preliminary Version III, March 21, 2003, and in particular pp. 6, 72, 80-84, 89-95, 104-119, and 134-218						
EXAMINER			DATE CONSIDERED				

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
	6,219,611	4-17-01	Russell				
	6,247,445	6-19-01	Langer				
	6,276,316	8-21-01	Arai et al				
	6,332,446	12-25-01	Matsumoto et al				
	6,336,355	1-8-02	Sasaki et al				
	6,341,584	1-29-02	Itoyama et al				
	6,349,541	2-26-02	Gruden et al				
	6,374,813	4-23-02	Iida et al				
	6,386,156	5-14-02	Stockhausen et al				
	6,390,063	5-21-02	Obata et al				
	6,408,806	6-25-02	Sugiyama et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
OTHER DOCUMENTS							
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
	2002/0096139	7-25-02	Zheng				
	6,425,369	7-30-02	Arai et al				
	6,431,129	8-13-02	Hammoud et al				
	6,431,130	8-13-02	Leone et al				
	6,443,108	9-3-02	Brehob et al				
	6,453,662	9-24-02	Lewis et al				
	6,453,665	9-24-02	Bower Jr. et al				
	6,457,465	10-1-02	Lee				
	6,474,303	11-5-02	Leone et al				
	6,311,667	11-6-02	Satou et al				
	6,481,201	11-19-02	Kako et al				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DA6336355TE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
OTHER DOCUMENTS							
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
	6,484,677	11-26-02	Leone et al				
	6,470,853	11-29-02	Leone et al				
	6,497,093	12-24-02	Lewis et al				
	6,502,389	1-7-03	Katayama et al				
	2003/0015026	1-23-03	Chung				
	6,513,493	2-4-03	Robichaux et al				
	6,532,944	3-18-03	Leone et al				
	6,550,434	4-22-03	Leone et al				
	6,557,505	5-6-03	Hori				
	6,568,177	5-27-03	Sumilla				
	6,591,605	7-15-03	Lewis				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DA6336355TE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
OTHER DOCUMENTS							
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GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	6,619,262	9-16-03	Graf et al			
	6,629,409	10-7-03	Lewis et al			
	6,640,756	11-4-03	Ogiso			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DA6336355TE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	

OTHER DOCUMENTS

EXAMINER

DATE CONSIDERED